

C L A I M S

1. An electronic apparatus, comprising:

5 a first radio module configured to use a first frequency band;

a second radio module configured to use a second frequency band which is different from the first frequency band;

10 an antenna coupled to both said first radio module and said second radio module;

a dielectric material; and

15 a mechanism configured to relatively move said dielectric material with respect to said antenna so that an interval between said antenna and said dielectric material is changed between a first interval for said first radio module and a second interval for said second radio module.

20 2. An electronic apparatus according to claim 1, wherein the antenna is a flat plate type having a planar surface, and said dielectric material is disposed on one side of said planar surface.

25 3. An electronic apparatus according to claim 2, wherein said mechanism is operable for changing a perpendicular distance between a plane containing a surface of said dielectric material and said one side

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while maintaining said dielectric material parallel to said one side.

4. The electronic apparatus according to claim 2,
5 wherein said mechanism is operable for moving said dielectric material along a direction parallel to said one side.

5. An electronic apparatus according to claim 2,
10 further comprising:

a second dielectric material disposed on the other side of said planar surface,

wherein said mechanism is operable for moving both said first dielectric material and said second
15 dielectric material relative to said antenna.

6. An electronic apparatus according to claim 5,
wherein said mechanism is operable for moving said first and second dielectric materials in one of (1) an
20 independent manner or (2) a co-operating manner.

7. An electronic apparatus according to claim 5,
further comprising:

a driving device coupled to said mechanism for
25 moving said dielectric material and said second dielectric material relative to said antenna; and

a control device coupled to said driving device,

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for providing said driving device with a signal
indicative of a driving amount of said driving device
corresponding to a first interval between said first
dielectric material and said antenna and a second
5 interval between said second dielectric material and
said antenna.

8. An electronic apparatus according to claim 7,
further comprising an input device for inputting data
10 indicative of the first and second intervals.

9. An electronic apparatus according to claim 8,
wherein said control device includes a memory which
stores a correspondence data between the data input by
15 said input device and the driving amount.

10. An electronic apparatus according to claim 7,
further comprising an input device for inputting a
selection of said first radio module and said second
20 radio module.

11. An electronic apparatus according to claim 10,
wherein said control device is operable for providing
said driving device with the signal corresponding to
25 the selection input by said input device.

12. An electronic apparatus according to claim 11,

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wherein said control device includes a memory which stores a correspondence data between the selected radio module and the driving amount.

5 13. An electronic apparatus according to claim 1, wherein said mechanism includes a handle linked to said dielectric material.

10 14. An electronic apparatus according to claim 13, further comprising a graduation arranged to indicate an extent of movement of said handle.

15 15. An electronic apparatus according to claim 1, further comprising:
15 a driving device coupled to said mechanism; and
 a control device coupled to said driving device, for providing said driving device with a signal indicative of a driving amount of said driving device corresponding to an interval between said dielectric
20 material and said antenna.

25 16. An electronic apparatus according to claim 15, further comprising an input device for inputting a data indicative of one of said first radio module and said second radio module.

17. An electronic apparatus according to claim 16,

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wherein said control device includes a memory which stores a correspondence data between the data input by said input device and the driving amount.

5 18. An electronic apparatus according to claim 1, wherein said first radio module is for use in a wireless LAN.

10 19. A method of operating a portable computing device having wireless communications for selecting between at least a first and a second radio module connected to said portable computing device, said first and second radio modules operating with a first and a second, different, radio frequency band and each
15 utilizing an antenna, the method comprising the steps of:

 operating said portable computing device utilizing said first module to effect wireless communications using said first frequency band;

20 relatively moving a dielectric material with respect to said antenna to enable optimization of wireless transmission/reception by said second radio module operating with said second frequency band.